



What is a Better Buildings Accelerator?

Called for in the President's Climate Action Plan

- Better Buildings Accelerators are designed to demonstrate specific innovative approaches in energy data, performance contracting, and utility strategic energy management, which upon successful demonstration will accelerate investment in energy efficiency.
- The Home Upgrade Program Accelerator is designed to help home energy upgrade programs bring services to more homes across the country by leveraging data management strategies that minimize costs while improving overall program effectiveness.



Accelerate Process Improvements

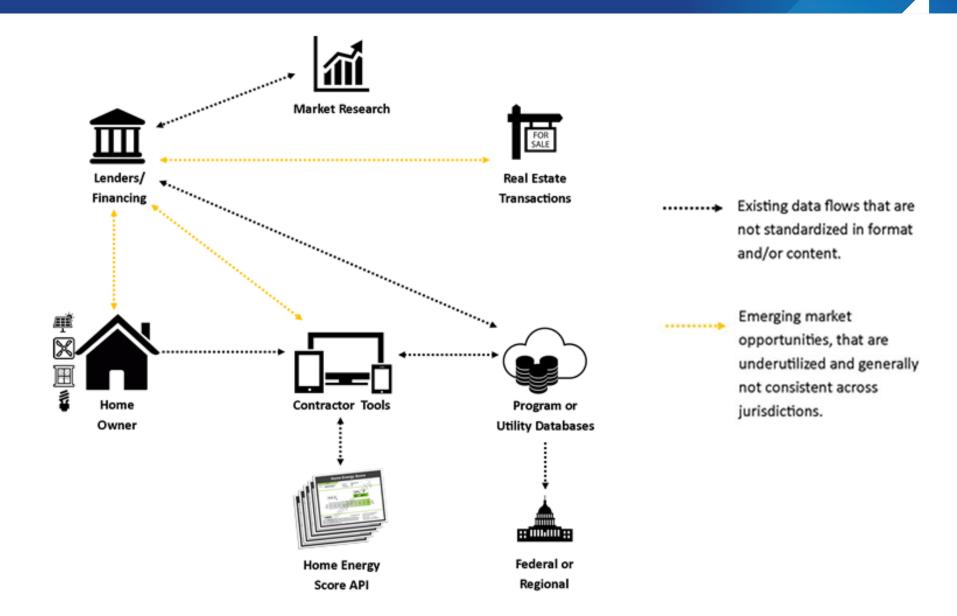
By improving the processes used to manage and track home upgrades, review the quality of work, and evaluate savings and other impacts, programs can scale up to reach goals of completing millions of home energy upgrades annually.





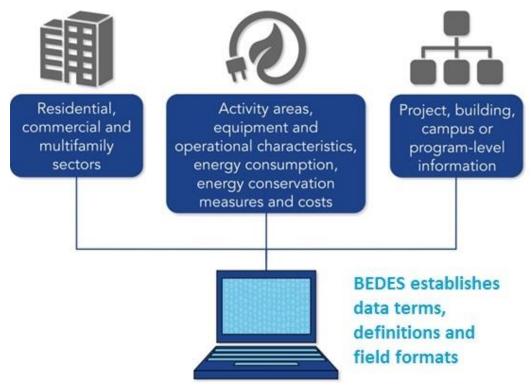


The Existing Data Infrastructure



The Building Energy Data Exchange Specification (BEDES)

BEDES provides a common set of data terms, definitions and field formats that can be used by public and private software tools, data schemas and databases working within the building energy performance sector.







What is HPXML?

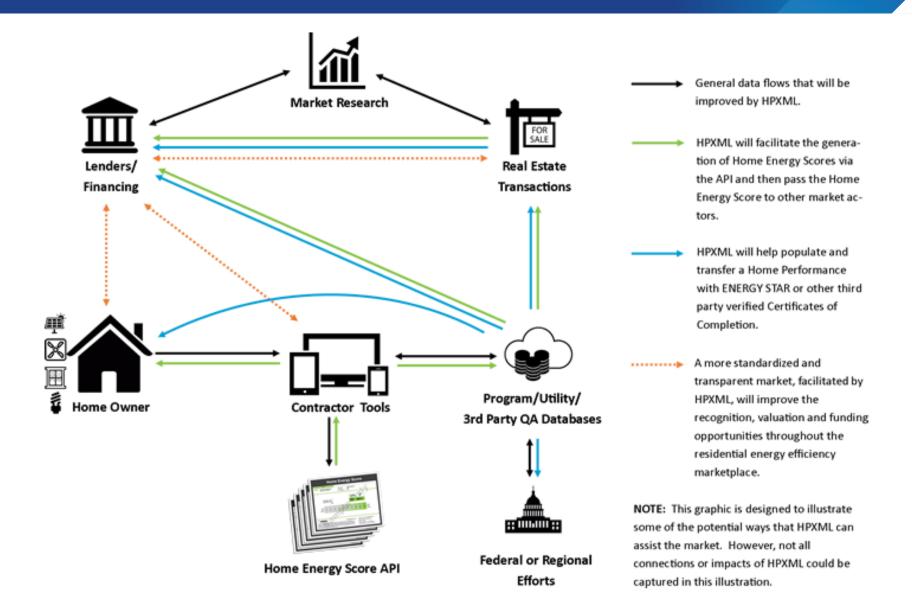
Two primary data standards published by the Building Performance Institute (BPI) for collecting and transferring home energy upgrade information.

- Dictionary of terms for home upgrades aligned with BEDES
 - Home Performance-Related Data Collection (BPI-2200)
- Schema for data transfer using extensible mark-up language (XML)
 - Home Performance-Related Data Transfer (BPI-2100)





HPXML Enabled Infrastructure



HPXML: An Important Tool

- Standardize the collection of residential building data.
- Increase data interoperability between industry software system.
- Facilitate implementation consistency across jurisdictions to drive economies of scale.
- Create consistent, high quality, and large scale data sets to inform market research and valuation of EE resources.





Program Operational Efficiency

- Improve contractor reporting by enabling contractor choice of audit software:
 - Example: APS Home Performance Program doubled contractor satisfaction with new software environment.
- Streamline data collections and auto validation:
 - Example: APS Home Performance Program decreased admin cost per project by 50%
- Streamline reporting and data transfer.





Benefits to Trade Ally

- Choice in tools for data collection and modelling
 - Aligns better with contractor business systems
 - Take advantage of innovation
 - Integration with internal quality management
- Streamline user experience for lower participation costs
 - Example: APS program, contractors reporting 31% reduction in admin time per project
- Potential integration with other services
 - Marketing
 - Financing
- Potential for seamless experience across markets and programs





Other Process Improvements

- Make customer program application process easier and reduce financing approval times
 - EXAMPLE: 95% of NYSERDA customers move from decision to use program to approved contract offer within 1 week.
- Streamline and simplify work scope reviews
 - EXMAPLE: NYSERDA approve time reduced from 8 to 1 day and FTE's reduced from 3 to 1





Process Improvement Opportunities

Programs can reduce administrative time and cost

- Simplify and streamline customer application process.
- Streamline data collection and improve data consistency.
- Enable faster quality assurance review.
- Facilitate faster project approvals for contractors.
- Enable contractor selection of modeling software (reduces training costs and technical support needs).
- Shorter cycle evaluation of impacts.







Home Upgrade Program Accelerator

Vision

Lower cost administration for home energy upgrade programs to enable growth to millions of homes per year

Complete Software Updates

Implement Home
 Performance XML
 data standard in
 software programs
 that represent
 >25% of home
 upgrades nationally



Document Process
Changes

 Demonstrate approaches for reducing program administrative costs enabled by HPXML and other strategies



Determine Cost
Savings

 Analyze and document cost and time savings of streamlined approaches



Disseminate Best Practices

 Highlight partner successes, develop implementation models, and encourage adoption of best practices.



Success Metric

Deploy HPXML in programs representing at least 25% of home upgrades nationally and document time and cost reductions from this and other approaches to streamline program administration.





Benefits to Accelerator Partners

- Help implementing HPXML and other process improvements
- Reduce program cost and enhance effectiveness
- Improve participating contractor satisfaction
- Receive public recognition from DOE as a leader





Accelerator Partners

- Administrators of home energy upgrade programs
- Committed to the Accelerator goals
- Pledge to set specific commitments to improve a programs effectiveness.
 - Implement HPXML and other practices to reduce the administrative burden of collecting home energy upgrade data.
- Identify one or more barriers to implementing HPXML, or other opportunities for process improvements.
- Participate in technical assistance and/or peer sharing forums.
- Share materials, results, and lessons learned from their innovative approaches.
- Report on progress towards the goal annually including providing information on program administration costs and progress in reducing those costs.

Initial Partners

- APS
- NYSERDA
- Build It Green
- Clean Energy Works
- Pearl Home Certification
- Building Performance Institute





How will Success be Achieved?

	Commitments		Timeframe
Identify Barriers and Implement Strategies			
Identify one or more barriers to implementing HPXML, or other opportunities for process improvements to reduce partner administrative costs and improve program's effectiveness.		June – July 2015	
Partners participate in one-on-one call with DOE to discuss strategies and a work plan to achieve partner organization's commitments and identify metrics that will show progress (e.g. reduced cost or time, increased satisfaction or program output).			June – Sept. 2015
Partners implement strategies outlined in work plan to reduce administrative costs and improve program effectiveness.		Sept 2015 – May 2018; Quarterly Check-in	
Share Progress and Successes			
Participate in quarterly peer exchange calls with other Accelerator partners and collaborators to discuss common challenges and successful strategies (e.g., HPXML use case needs, tracking metrics, valuable resources).			Quarterly
Partners report progress on annual work plan including information on metrics of success (e.g. reduced cost, time or improve satisfaction or program output).			Annually; Jan-Feb
Partners provide DOE with information on achievements for Better Buildings Annual Report, media announcements, or case studies.			Annually; March-May
Meet at the ACI Home Performance Conference for partner working meeting.		Annually; April or May	
Accelerator Information Webinar June 18, 2015	New Partner Commitment Media Announcement October 2015	Partners Share Solutions Better Buildings Summit, Washington, DC May 2016	

Partner Kickoff Call

Mid-July 2015

Partner Working Session Home Performance Conference, Austin, TX April 2016





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